

NASA Contractor Report 191440

1N-59

167910

P. 92

ICASE



CUMULATIVE REPORTS AND PUBLICATIONS through DECEMBER 31, 1992

(NASA-CR-191440) CUMULATIVE
REPORTS AND PUBLICATIONS (ICASE)
92 p

N93-27063

Unclass

G3/59 0167910

Contract Nos. NAS1-19480, NAS1-18605, NAS1-18107,
NAS1-17070, NAS1-17130, NAS1-15830,
NAS1-16394, NAS1-14101, NAS1-14472

April 1993

Institute for Computer Applications in Science and Engineering
NASA Langley Research Center
Hampton, Virginia 23681-0001

Operated by the Universities Space Research Association



National Aeronautics and
Space Administration
Langley Research Center
Hampton, Virginia 23681-0001

INTRODUCTION

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The Institute conducts unclassified basic research in applied mathematics, numerical analysis, fluid mechanics, and computer science in order to extend and improve problem solving capabilities in science and engineering, particularly in aeronautics and space.

ICASE has a small permanent staff. Research is conducted primarily by visiting scientists from universities and industry who have resident appointments for limited periods of time, and by consultants. Members of NASA's research staff also may be resident at ICASE for limited periods.

The major categories of the current ICASE research program are:

- Applied and numerical mathematics, including numerical analysis and algorithm development;
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- Experimental research in transition and turbulence and aerodynamics involving LaRC facilities and scientists;
- Computer science.

ICASE reports are considered to be primarily preprints of manuscripts that have been submitted to appropriate research journals or which are to appear in conference proceedings. In the next section, a complete listing of ICASE reports for the calendar years 1975 through December 1991 are given. The final section contains journal and conference proceedings references for older reports.

¹Presently, ICASE is operated at NASA Langley Research Center, Hampton, VA, 23681-0001 under NASA Contract No. NAS1-19480. In the past, support has been provided by NASA Contract Nos. NAS1-18605, NAS1-17070, NAS1-17130, NAS1-15810, NAS1-16394, NAS1-14101, and NAS1-14472.

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REPORT DOCUMENTATION PAGE			Form Approved OMB No. 0704-0188	
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1. AGENCY USE ONLY (Leave blank)		2. REPORT DATE April, 1993		3. REPORT TYPE AND DATES COVERED Contractor Report
4. TITLE AND SUBTITLE CUMULATIVE REPORTS AND PUBLICATIONS through December 31, 1992			5. FUNDING NUMBERS C NAS1-19480, NAS1-18605, NAS1-18107, NAS1-17070, NAS1-17130, NAS1-15830, NAS1-16394, NAS1-14101, NAS1-14472 WU 505-90-52-01	
6. AUTHOR(S)			8. PERFORMING ORGANIZATION REPORT NUMBER	
7. PERFORMING ORGANIZATION NAME(S) AND ADDRESS(ES) Institute for Computer Applications in Science and Engineering Mail Stop 132C, NASA Langley Research Center Hampton, VA 23681-0001			10. SPONSORING / MONITORING AGENCY REPORT NUMBER NASA CR-191440	
9. SPONSORING / MONITORING AGENCY NAME(S) AND ADDRESS(ES) National Aeronautics and Space Administration Langley Research Center Hampton, VA 23681-0001			11. SUPPLEMENTARY NOTES Langley Technical Monitor: Michael F. Card Final Report	
12a. DISTRIBUTION / AVAILABILITY STATEMENT Unclassified - Unlimited Subject Category 59			12b. DISTRIBUTION CODE	
13. ABSTRACT (Maximum 200 words) This document contains a complete list of ICASE reports. Since ICASE reports are intended to be preprints of articles that will appear in journals or conference proceedings, the published reference is included when it is available.				
14. SUBJECT TERMS Mathematics; Numerical Analysis; Computer Science			15. NUMBER OF PAGES 91	
			16. PRICE CODE A05	
17. SECURITY CLASSIFICATION OF REPORT Unclassified	18. SECURITY CLASSIFICATION OF THIS PAGE Unclassified	19. SECURITY CLASSIFICATION OF ABSTRACT	20. LIMITATION OF ABSTRACT	